



# education

FIRST LEGO League
Australian Curriculum Links



FIRST® LEGO® League provides a practical and engaging way to involve students in a variety of subject areas as they work collaboratively to solve problems with real-world connections. Student learning is self-directed and hands-on with plenty of scope for differentiation as teachers adapt the level of scaffolding and assessment items (diagnostic, formative and summative) to suit their classes and reporting needs. The tables below identify some of the General Capabilities and Subject Area Content Descriptions from the Australian Curriculum for years 5 to 9 which teachers may wish to address and/or assess as part of their FLL preparations, with activity and assessment examples included.

#### **General Capabilities - Literacy**

Level 4 Typically by the end of Year 6	Level 5 Typically by the end of Year 8	Level 6 Typically by the end of Year 10
Comprehending texts through listening, reading and viewing		
Navigate, read and view learning area texts		
Navigate, read and view subject-specific texts with some challenging features and a range of graphic representations.	Navigate, read and view a variety of challenging subject-specific texts with a wide range of graphic representations.	Navigate, read and view a wide range of more demanding subject-specific texts with an extensive range of graphic representations.
Prepare research summaries for the project from	m a variety of sources to share with the team.	
Listen and respond to learning area texts		
Listen to detailed spoken instructions for undertaking learning tasks, listen to spoken and audio texts, including audio-visual texts, and respond to and interpret information and opinions presented.	Listen to extended spoken and audio texts, including audio-visual texts, respond to and interpret stated and implied meanings, and evaluate information and ideas.	Listen to a range of extended spoken and audio texts, including audio-visual texts, and respond to, interpret and evaluate ideas, information and opinions.
<ul> <li>Attend expert presentations as part of the project</li> </ul>		
Interview experts as part of project research and	d solution development phases.	
Interpret and analyse learning area texts		
Interpret and analyse information and ideas,	Interpret and evaluate information, identify main	Interpret and evaluate information within and
comparing texts on similar topics or themes using	ideas and supporting evidence, and analyse	between texts, comparing and contrasting
comprehension strategies.	different perspectives using comprehension strategies.	information using comprehension strategies.
Synthesise information from research and expert interviews.		

Level 4 Typically by the end of Year 6	Level 5 Typically by the end of Year 8	Level 6 Typically by the end of Year 10
Composing texts through speaking, writing and creating		
Compose spoken, written, visual and multin	nodal learning area texts	
Compose and edit learning area texts.	Compose and edit longer sustained learning area texts.	Compose and edit longer and more complex learning area texts.
<ul> <li>Compose emails, letters, flyers, posters, etc to share project knowledge.</li> <li>Create and maintain a robot design log or executive design summary.</li> </ul>		
Use language to interact with others		
Use pair, group and class discussions and informal debates as learning tools to explore ideas and relationships, test possibilities, compare solutions and to prepare for creating texts.	Use pair, group and class discussions and formal and informal debates as learning tools to explore ideas, text possibilities, compare solutions, rehearse ideas and arguments in preparation for creating texts.	Use pair, group and class discussions and formal and informal debates as learning tools to explore ideas, compare solutions, evaluate information and ideas, refine opinions and arguments in preparation for creating texts.
Team and sub-team discussions and/or debates relating to project solutions and/or robot design solutions.		
Deliver presentations		
Plan, research, rehearse and deliver presentations on learning area topics, selecting appropriate content and visual and multimodal elements to suit different audiences.	Plan, research, rehearse and deliver presentations on learning area topics, sequencing selected content and multimodal elements for accuracy and their impact on the audience.	Plan, research, rehearse and deliver presentations on more complex issues and learning area topics, combining visual and multimodal elements creatively to present ideas and information and support opinions and engage and persuade an audience.
<ul><li>Project presentation.</li><li>Robot Design presentation.</li></ul>		

#### General Capabilities – Information and Communication Technology (ICT) Capability

Level 4 Level 5 Level 6		
Typically by the end of Year 6	Typically by the end of Year 8	Typically by the end of Year 10
Investigating with ICT	Typically by the ond or rear c	Typicany by the one of Year 10
Define and plan information searches		
Use a range of ICT to identify and represent	Use a range of ICT to analyse information in terms	Select and use a range of ICT independently and
patterns in sets of information and to pose	of implicit patterns and structures as a base to	collaboratively, analyse information to frame
questions to guide searching for, or generating,	plan an information search or generation.	questions and plan search strategies or data
further information.	plan an information scaron of generation.	generation.
Identify a specific problem within the overall the	me on which to focus the project	generation.
Locate, generate and access data and inform	, .	
Locate, retrieve or generate information using	Locate, retrieve or generate information using	Use advanced search tools and techniques or
search engines and simple search functions and	search facilities and organise information in	simulations and digital models to locate or
classify information in meaningful ways.	meaningful ways.	generate precise data and information that
	g.u. waye.	supports the development of new understandings.
Research the overall theme, identified problem and possible solutions as part of the project phase.		
Select and evaluate data and information		
Assess the suitability of data or information using	Assess the suitability of data or information using	Develop and use criteria systematically to evaluate
a range of appropriate given criteria.	appropriate own criteria.	the quality, suitability and credibility of located data
		or information and sources.
Only information relevant to the chosen project	topic is reported back to the team.	
Communicating with ICT		
Collaborate, share and exchange		
Select and use appropriate ICT tools safely to	Select and use appropriate ICT tools safely to lead	Select and use a range of ICT tools efficiently and
share and exchange information and to safely	groups in sharing and exchanging information, and	safely to share and exchange information, and to
collaborate with others.	taking part in online projects or active	collaboratively and purposefully construct
	collaborations with appropriate global audiences.	knowledge.
Use shared documents or workspaces to collate	e and share information within the team.	
Use online platforms to access experts.		
Understand computer mediated communication		
Understand that particular forms of computer	Understand that there are various methods of	Understand that computer mediated
mediated communications and tools are suited to	collaboration through computer mediated	communications have advantages and
synchronous or asynchronous and one-to-one or	communications that vary in form and control.	disadvantages in supporting active participation in
group communications.		a community of practice and the management of
Use shared documents or workspaces to collate	and share information within the team	collaboration on digital materials
<ul> <li>Use shared documents or workspaces to collate</li> <li>Use online platforms to access experts.</li> </ul>	ट बााप आवार गागिमाविपामा सामागा पार प्रिवाप.	
boe offille platforms to access experts.		

• Use ICT platforms to share project information with others.

Level 4	Level 5	Level 6
Typically by the end of Year 6	Typically by the end of Year 8	Typically by the end of Year 10
Managing and operating ICT		
Select and use hardware and software		
Select from, and safely operate, a range of devices to undertake specific tasks and use basic troubleshooting procedures to resolve routine	Independently select and operate a range of devices by adjusting relevant software functions to suit specific tasks, and independently use	Justify the selection of, and optimise the operation of, a selected range of devices and software functions to complete specific tasks, for different
malfunctions.	common troubleshooting procedures to resolve routing malfunctions.	purposes and in different social contexts.
<ul> <li>Use computers and/or tablets to collate information, create documentation and program the robot.</li> <li>Create basic troubleshooting documents for the computer/tablet and robot as team reference material.</li> </ul>		
Manage digital data		
Manage and maintain data on different storage	Manage and maintain data for groups of users	Manage and maintain data securely in a variety of
mediums – locally and on networks.	using a variety of methods and systems.	storage mediums and formats.
Determine a team strategy for the storage, sharing and backup of data relating to the project, robot design and robot programming.		
Agree on file naming and saving procedures for the team.		

#### **General Capabilities – Critical and Creative Thinking**

Level 4	Level 5	Level 6
Typically by the end of Year 6	Typically by the end of Year 8	Typically by the end of Year 10
Inquiring – identifying, exploring and or	ganising information and ideas	
Pose questions		
Pose questions to clarify and interpret information	Pose questions to probe assumptions and	Pose questions to critically analyse complex
and probe for causes and consequences.	investigate complex issues.	issues and abstract ideas.
Prepare questions for experts.		
<ul> <li>Team brainstorming and sharing sessions for b</li> </ul>	oth project and robot design.	
Identify and clarify information and ideas		
Identify and clarify relevant information and	Clarify information and ideas from texts and	Clarify complex information and ideas drawn from
prioritise ideas.	images when exploring challenging issues.	a range of sources.
<ul> <li>Prepare summaries of researched topics.</li> </ul>		
Organise and process information		
Analyse, condense and combine relevant	Critically analyse information and evidence	Critically analyse independently sourced
information from multiple sources.	according to criteria such as validity and	information to determine bias and reliability.
	relevance.	
<ul> <li>Prepare summaries of researched topics.</li> </ul>		
Generating ideas, possibilities and action	ns	
Imagine possibilities and connect ideas		
Combine ideas in a variety of ways and from a	Draw parallels between known and new ideas to	Create and connect complex ideas using imagery
range of sources to create new possibilities.	create new ways of achieving goals.	analogies and symbolism.
<ul> <li>Develop an innovative solution to the identified</li> </ul>	problem as part of the project.	
<ul> <li>Develop a robot game strategy as a team.</li> </ul>		
Consider alternatives		
Identify situations where current approaches do	Generate alternatives and innovative solutions,	Speculate on creative options to modify ideas
not work, challenge existing ideas and generate	and adapt ideas, including when information is	when circumstances change.
alternative solutions.	limited or conflicting.	
<ul> <li>Choose a specific problem relevant to the team</li> </ul>		
Develop an innovative solution to the identified		
Develop and continually improve the robot gam	e strategy.	
Seek solutions and put ideas into action	T =	
Assess and test options to identify the most	Predict possibilities, and identify and test	Assess risks and explain contingencies, taking
effective solution to put ideas into action.	consequences when seeking solutions and putting ideas into action.	account of a range of perspectives, when seeking solutions and putting complex ideas into action.
<ul> <li>Evaluate proposed project solution, performing</li> <li>Test and continually improve robot game strate</li> </ul>	scientific tests where possible and consulting experts.	

Level 4	Level 5	Level 6
Typically by the end of Year 6	Typically by the end of Year 8	Typically by the end of Year 10
Reflecting on thinking and processes		
Think about thinking (metacognition)		
Reflect on assumptions made, consider	Assess assumptions in their thinking and invite	Give reasons to support their thinking, and
reasonable criticism and adjust their thinking if	alternative opinions.	address opposing viewpoints and possible
necessary.		weaknesses in their own positions.
Share project innovative solution with experts.		
Work as a team to continually improve robot gar	me strategy, sharing ideas and providing feedback.	
Reflect on processes		
Identify and justify the thinking behind choices	Evaluate and justify the reasons behind choosing	Balance rational and irrational components of a
they have made.	a particular problem-solving strategy.	complex or ambiguous problem to evaluate
		evidence.
Present project innovative solution to stakeholders and experts.		
<ul> <li>Present and justify robot design ideas to team n</li> </ul>	nembers.	
Transfer knowledge into new contexts		
Apply knowledge gained from one context to	Justify reasons for decisions when transferring	Identify, plan and justify transference of knowledge
another unrelated context and identify new	information to similar and different contexts.	to new contexts.
meaning.		
Transfer knowledge from explicit teaching to solve problems in project or robot game.		

#### **General Capabilities – Personal and Social Capability**

Level 4	Level 5	Level 6
Typically by the end of Year 6	Typically by the end of Year 8	Typically by the end of Year 10
Self-awareness		
Recognise emotions		
Explain how the appropriateness of emotional	Examine influences on and consequences of their	Reflect critically on their emotional responses to
responses influences behaviour.	emotional responses in learning, social and work- related contexts.	challenging situations in a wide range of learning, social and work-related contexts.
<ul> <li>Review the functioning of the team, particularly after each team building activity.</li> <li>Consider the Core Values that make up Gracious Professionalism® - Inclusion, Respect and Coopertition®.</li> </ul>		
Recognise personal qualities and achievement	ents	
Describe the influence that personal qualities and strengths have on their learning outcomes.	Make a realistic assessment of their abilities and achievements, and prioritise areas for improvement.	Assess their strengths and challenges and devise personally appropriate strategies to achieve future success.
<ul> <li>Prepare an application to be part of the team.</li> <li>Complete a reflection.</li> <li>Core Value – "What we discover is more imported."</li> </ul>	ant than what we win."	
Understand themselves as learners		
Identify preferred learning styles and work habits.	Identify and choose a range of learning strategies appropriate to specific tasks and describe work practices that assist their learning.	Evaluate the effectiveness of commonly used learning strategies and work practices and refine these as required.
Set team rules.		
<ul> <li>Establish goals for each team meeting and agree</li> </ul>	e responsibilities.	
Develop reflective practice		
Monitor their progress, seeking and responding to	Predict the outcomes of personal and academic	Reflect on feedback from peers, teachers and
feedback from teachers to assist them in	challenges by drawing on previous problem	other adults, to analyse personal characteristics
consolidating strengths, addressing weaknesses	solving and decision making strategies and	and skill set that contribute to or limit their
and fulfilling their potential.	feedback from peers and teachers.	personal and social capability.
<ul><li>Complete reflection.</li><li>Establish goals for each team meeting and agre</li></ul>	e responsibilities.	

Level 4	Level 5	Level 6
Typically by the end of Year 6 Self-management	Typically by the end of Year 8	Typically by the end of Year 10
Express emotions appropriately		
Explain the influence of emotions on behaviour, learning and relationships.	Forecast the consequences of expressing emotions inappropriately and devise measures to regulate behaviour.	Consider control and justify their emotional responses, in expressing their opinions, beliefs, values, questions and choice.
<ul> <li>Review the functioning of the team, particularly a</li> <li>Set team rules.</li> </ul>	after each team building activity.	
Develop self-discipline and set goals		
Analyse factors that influence ability to self- regulate; devise and apply strategies to monitor own behaviour and set realistic learning goals.	Select, use and analyse strategies that assist in regulating behaviour and achieving personal and learning goals.	Critically analyse self-discipline strategies and personal goals and consider their application in social and work-related contexts.
<ul> <li>Set team rules.</li> <li>Establish goals for each team meeting and agre</li> <li>Complete student reflections</li> </ul>	e responsibilities.	
Work independently and show initiative		
Assess the value of working independently, and taking initiative to do so where appropriate.	Critique their effectiveness in working independently by identifying enablers and barriers to achieving goals.	Establish personal priorities, manage resources effectively and demonstrate initiative to achieve personal goals and learning outcomes.
<ul> <li>Establish goals for each team meeting and agree responsibilities.</li> <li>Complete student reflections.</li> </ul>		
Become confident, resilient and adaptable		
Devise strategies and formulate plans to assist in the completion of challenging tasks and the maintenance of personal safety.	Assess, adapt and modify personal and safety strategies and plans, and revisit tasks with renewed confidence.	Evaluate, rethink and refine approaches to tasks to take account of unexpected or difficult situations and safety considerations.
<ul><li>Establish goals for each team meeting and agre</li><li>Complete student reflections.</li></ul>	e responsibilities.	

Level 4	Level 5	Level 6
Typically by the end of Year 6	Typically by the end of Year 8	Typically by the end of Year 10
Social awareness		
Appreciate diverse perspectives		
Explain how means of communication differ within	Acknowledge the values, opinions and attitudes of	Articulate their personal value system and analyse
and between communities and identify the role	different groups within society and compare to	the effects of actions that repress social power
these play in helping or hindering understanding of	their own points of view.	and limit the expression of diverse views.
others.		
Set team rules.		
Review the functioning of the team, particularly after each team building activity.		
Contribute to civil society		
Identify a community need or problem and	Analyse personal and social roles and	Plan, implement and evaluate ways of contributing
consider ways to take action to address it.	responsibilities in planning and implementing ways	to civil society at local, national regional and global
	of contributing to their communities.	levels.
Review the functioning of the team, particularly a	after each team building activity.	
<ul> <li>Establish goals for each team meeting and agre</li> </ul>	e responsibilities.	
Understand relationships		
Identify the difference between positive and	Identify indicators or possible problems in	Explain how relationships differ between peers,
negative relationships and ways of managing	relationships in a range of social and work related	parents, teachers and other adults, and identify the skills
these.	situations.	needed to manage different types of relationships.
Review the functioning of the team, particularly after each team building activity.		
Complete reflection.		

Level 4	Level 5	Level 6
Typically by the end of Year 6	Typically by the end of Year 8	Typically by the end of Year 10
Social management		
Communicate effectively		
Identify and explain factors that influence effective	Analyse enablers of and barriers to effective	Formulate plans for effective communication (verbal,
communication in a variety of situations.	verbal, nonverbal and digital communication.	nonverbal, digital) to complete complex tasks.
<ul> <li>Review the functioning of the team, particularly</li> </ul>	after each team building activity.	
Work collaboratively		
Contribute to groups and teams, suggesting	Assess the extent to which individual roles and	Critique their ability to devise and enact strategies for
improvements in methods used for group	responsibilities enhance group cohesion and the	working in diverse teams, drawing on the skills and
investigations and projects.	achievement of personal and group objectives.	contributions of team members to complete complex
		tasks.
Review the functioning of the team, particularly after each team building activity.		
Make decisions		
Identify factors that influence decision making and	Assess individual and group decision-making	Develop and apply criteria to evaluate the outcomes of
consider the usefulness of these in making their	processes in challenging situations.	individual and group decisions and analyse the
own decisions.		consequences of their decision making.
Review the functioning of the team, particularly	after each team building activity.	
Set team rules.		
Negotiate and resolve conflict		
Identify causes and effects of conflict, and practise	Assess the appropriateness of various conflict	Generate, apply and evaluate strategies such as active
different strategies to resolve conflict situations.	resolution strategies in a range of social and work-	listening, mediation and negotiation to prevent and
	related situations.	resolve interpersonal problems and conflicts.
Review the functioning of the team, particularly a	after each team building activity (role play may be par	ticularly useful).
Develop leadership skills		
Initiate or help organise group activities that	Plan school and community projects, applying	Propose, implement and monitor strategies to address
address a common need.	effective problem-solving and team-building	needs prioritised at local, national, regional and global
	strategies, and making the most of available	levels, and communicate these widely.
	resources to achieve goals.	
Establish goals for each team meeting and agree responsibilities.		
Complete student reflections.		

#### **Design & Technologies**

Years 5- 6	Years 7-8	Years 9-10
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Knowledge & Understanding		
Examine how people in design and technologies occupations address competing considerations, including sustainability in the design of products, services, and environments for current and future use (ACTDEK019)	Investigate the ways in which products, services and environments evolve locally, regionally and globally and how competing factors including social, ethical and sustainability considerations are prioritised in the development of technologies and designed solutions for preferred futures (ACTDEK029)	Critically analyse factors, including social, ethical and sustainability considerations, that impact on designed solutions for global preferred futures and the complex design and production processes involved (ACTDEK040)
<ul> <li>Review existing solutions to identified project iss</li> <li>Identify stakeholders and factors to consider in a laterview experts regarding project topic and positive.</li> </ul>	designing a solution to the identified project issue.	
Processes & Production Skills		
Critique needs and opportunities for designing and investigate materials, components, tools, equipment and processes to achieve intended design solutions (ACTDEP024)	Critique needs or opportunities for designing and investigate, analyse and select from a range of materials, components, tools, equipment and processes to develop design ideas (ACTDEP035)	Critique needs or opportunities to develop design briefs and investigate and select an increasingly sophisticated range of materials, systems, components, tools and equipment to develop design ideas (ACTDEP048)
Experimentation and problem solving to develop	viable solutions to the identified project issue and to	complete assigned robot game missions.
Generate, develop and communicate design ideas and processes for audiences using appropriate technical terms and graphical representation techniques (ACTDEP025)	Generate, develop, test and communicate design ideas, plans and processes for various audiences using appropriate technical terms and technologies including graphical representation techniques (ACTDEP036)	Develop, modify and communicate design ideas by applying design thinking, creativity, innovation and enterprise skills of increasing sophistication (ACTDEP049)
Basic scientific, economic and technological literature	racies incorporated in presentation of Project and Rob	oot Design.
Select appropriate materials, components, tools, equipment and techniques and apply safe procedures to make designed solutions (ACTDEP026)	Select and justify choices of materials, components, tools, equipment and techniques to effectively and safely make designed solutions (ACTDEP037)	Work flexibly to effectively and safely test, select, justify and use appropriate technologies and processes to make designed solutions (ACTDEP050)
<ul> <li>Creating models and prototypes to demonstrate</li> <li>Consider components used in robot design to ac</li> </ul>	chieve robot game strategy.	
Negotiate criteria for success that include sustainability to evaluate design ideas, processes and solutions (ACTDEP027)	Independently develop criteria for success to evaluate design ideas, processes and solutions and their sustainability (ACTDEP038)	Evaluate design ideas, processes and solutions against comprehensive criteria for success recognising the need for sustainability (ACTDEP051)
Create rubrics against which to assess project ideas and possible robot design solutions.		
Develop project plans that include consideration of resources when making designed solutions individually and collaboratively (ACTDEP028)	Use project management processes when working individually and collaboratively to coordinate production of designed solutions (ACTDEP039)	Develop project plans using digital technologies to plan and manage projects individually and collaboratively taking into consideration time, cost, risk and production processes (ACTDEP052)

• Time management and project organisation to accomplish goals in an 8-week period.

#### **Digital Technologies**

Years 5- 6	Years 7-8	Years 9-10
Processes & Production Skills		
Design, modify and follow simple algorithms involving sequences of steps, branching, and	Design algorithms represented diagrammatically and in English, and trace algorithms to predict	Design algorithms represented diagrammatically and in structured English and validate algorithms
iteration (repetition) (ACTDIP019)	output for a given input and to identify errors (ACTDIP029)	and programs through tracing and test cases (ACTDIP040)
Creating and improving strategies to complete assigned robot game missions.		
Implement digital solutions as simple visual	Implement and modify programs with user	Implement modular programs, applying selected
programs involving branching, iteration (repetition)	interfaces involving branching, iteration and	algorithms and data structures including using an
and user input (ACTDIP020)	functions in a general-purpose programming language (ACTDIP030)	object-oriented programming language (ACTDIP041)
Experimenting and problem solving to implement robot game strategy.		
Annotate programs to identify the purpose of each component.		

#### English

Year 5	Year 6	Year 7	Year 8	Year 9
Interacting with Others				
Clarify understanding of content as it unfolds in formal and informal situations, connecting ideas to students' own experiences and present and justify a point of view (ACELY1699)	Participate in and contribute to discussions, clarifying an interrogating ideas, developing and supporting arguments, sharing and evaluating information, experiences and opinions (ACELY1709)	Identify and discuss main ideas, concepts and points of view in spoken texts to evaluate qualities, for example the strength of an argument or the lyrical power of a poetic rendition (ACELY1719)	Interpret the stated and implied meanings in spoken texts, and use evidence to support or challenge different perspectives (ACELY1730)	Listen to spoken texts constructed for different purposes, for example to entertain and to persuade, and analyse how language features of these texts position listeners to respond in particular ways (ACELY1740)
A variety of research methods and resources undertaken collaboratively				
User interaction skills, for example paraphrasing, questioning and interpreting non-verbal cues and choose vocabulary and vocal effects appropriate for different audiences and purposes (ACELY1796)	Use interaction skills, varying conventions of spoken interactions such as voice volume, tone, pitch and pace according to group size, formality of interaction and needs and expertise of audience (ACELY1816)	Use interaction skills when discussing and presenting ideas and information, selecting body language, voice qualities and other elements (for example music and sound) to add interest and meaning (ACELY1804)	Use interaction skills or identified purposes, using voice and language conventions to suit different situations, selecting vocabulary, modulating voice and using elements such as music, images and sound for specific effects (ACELY1808)	Use interaction skills to present and discuss an idea and to influence and engage an audience by selecting persuasive language, varying voice tone, pitch, and pace, and using elements such as music and sound effects (ACELY1811)
	kills with the wider community.			
Plan, rehearse and deliver presentations for defined audiences and purposes incorporating accurate and sequences content and multimodal elements (ACELY1700)	Plan, rehearse and deliver presentations, selecting and sequencing appropriate content and multimodal elements for defined audiences and purposes, making appropriate choices for modality and emphasis (ACELY1710)	Plan, rehearse and deliver presentations, selecting and sequencing appropriate content and multimodal elements to promote a point of view or enable a new way of seeing (ACELY1720)	Plan, rehearse and deliver presentations, selecting and sequencing content, including multimodal elements, to reflect a diversity of viewpoints (ACELY1731)	Plan, rehearse and deliver presentations, selecting and sequencing appropriate content and multimodal elements for aesthetic and playful purposes (ACELY1741)

Year 5	Year 6	Year 7	Year 8	Year 9
Language				
Language for Interaction				
Understand that patterns of	Understand that strategies	Understand how language is	Understand how rhetorical	Investigate how evaluation
language interaction vary	for interactions become more	used to evaluate texts and	devices are used to	can be expressed directly
across social contexts and	complex and demanding as	how evaluations about a text	persuade and how different	and indirectly using devices,
types of texts and that they	levels of formality and social	can be substantiated by	layers of meaning are	for example allusion,
help signal social roles and	distance increase	reference to text and other	developed through the use of	evocative vocabulary and
relationships (ACELA1501)	(ACELA1516)	sources (ACELA1782)	metaphor, irony and parody	metaphor (ACELA1552)
,		,	(ACELA1542)	,
Working in teams and sharing experiences with multiple audiences requires effective communication, collaboration and interpersonal skills.				

#### Science

	Year 6	Year 7	Year 8	Year 9
Science Inquiry Skills				
Planning and conducting				
	Identify, plan and apply the elements of scientific investigations to answer questions and solve problems using equipment and materials safely and identifying potential risks (ACSIS103)	Collaboratively and individually plan and conduct a range of investigation types, including fieldwork and experiments, ensuring safety and ethical guidelines are followed (ACSIS125)	Collaboratively and individually plan and conduct a range of investigation types, including fieldwork and experiments, ensuring safety and ethical guidelines are followed (ACSIS140)	Plan, select and use appropriate investigation types, including field work and laboratory experimentation, to collect reliable data; assess risk and address ethical issues associated with these methods (ACSIS165)
Use scientific process for problem solving in relation to project innovative solution and robot game strategy.				
Communicating				
of ways, including multi-	Communicate ideas, explanations and processes using scientific representations in a variety of ways, including multi- modal texts (ACSIS110)	Communicate ideas, findings and evidence based solutions to problems using scientific language, and representations, using digital technologies as appropriate (ACSIS133)	Communicate ideas, findings and evidence based solutions to problems using scientific language, and representations, using digital technologies as appropriate (ACSIS148)	Communicate scientific ideas and information for a particular purpose, including constructing evidence-based arguments and using appropriate scientific language, conventions and representations (ACSIS174)

#### **Health and Physical Education**

Year 5 & 6	Year 7 & 8	Year 9 & 10	
Communicating and interacting for health and wellbeing			
Practice skills to establish and manage relationships (ACPPS055)	Investigate the benefits of relationships and examine their impact on their own and others' health and wellbeing (ACPPS074)	Investigate how empathy and ethical decision making contribute to respectful relationships (ACPPS093)	
Participate in team building activities and review	the impacts of different behaviours on other team me	embers.	
Examine the influence of emotional responses on behaviour and relationships (ACPPS056)	Analyse factors that influence emotions, and develop strategies to demonstrate empathy and sensitivity (ACPPS075)	Evaluate situations and propose appropriate emotional responses and then reflect on possible outcomes of different responses (ACPPS094)	
<ul> <li>Participate in team building activities and review the impacts of different behaviours on other team members.</li> <li>Set team rules.</li> </ul>			
Learning through movement			
Participate positively in groups and teams by encouraging others and negotiating roles and responsibilities (ACPMP067)	Practise and apply personal and social skills when undertaking a range of roles in physical activities (ACPMP086)	Devise, implement and refine strategies demonstrating leadership and collaboration skills when working in groups or teams (ACPMP105)	
Review the Core Values and how these are being applied by team members.			
Set goals and responsibilities for each team meeting (and any homework).			
Apply critical and creative thinking processes to generate and assess solutions to movement challenges (ACPMP068)	Evaluate and justify reasons for decisions and choices of action when solving movement challenges (ACPMP087)	Transfer understanding from previous movement experiences to create solutions to movement challenges (ACPMP106)	
Participate in movement based team building activities and review the effectiveness of team decisions and actions.			
Demonstrate ethical behaviour and fair play that aligns with the rules when participating in a range of physical activities (ACPMP069)	Modify rules and scoring systems to allow for fair play, safety and inclusive participation (ACPMP088)	Reflect on how fair play and ethical behaviour can influence the outcomes of movement activities (ACPMP107)	
<ul> <li>Participate in team challenges, identifying the rules and how these could be altered to better reflect the Core Values (particularly inclusion).</li> </ul>			

#### **Human and Social Sciences**

Year O				
Year 5	Year 6	Year 7		
In accions and Chille				
Inquiry and Skills				
Develop appropriate questions to guide an inquiry	Develop appropriate questions to guide an	Construct significant questions and propositions to		
about people, events, developments, places,	inquiry about people, events, developments,	guide investigations about people, events,		
systems and challenges (ACHASSI094)	places, systems and challenges (ACHASSI122)	developments, places, systems and challenges		
		(ACHASSI152)		
Brainstorm possible project topics based on the				
Locate and collect relevant information and data	Locate and collect relevant information and data	Apply a methodology to locate and collect relevant		
from primary sources and secondary sources	from primary sources and secondary sources	information and data from a range of primary sources		
(ACHASSI095)	(ACHASSI123)	and secondary sources (ACHASSI153)		
<ul> <li>Research the project topic using a variety of app</li> </ul>				
Examine different viewpoints on actions, events,	Examine different viewpoints on actions,	Analyse primary sources and secondary sources to		
issues and phenomena in the past and present	events, issues and phenomena in the past and	identify values and perspectives on people, actions,		
(ACHASSI099)	present (ACHASSI127)	events, issues and phenomena, past and present		
		(ACHASSI157)		
<ul> <li>Identify stakeholders relevant to the selected present</li> </ul>				
Work in groups to generate responses to issues	)Work in groups to generate responses to	Collaborate to generate alternatives in response to		
and challenges (ACHASSI102	issues and challenges (ACHASSI130)	an issue or challenge, and compare the potential		
		costs and benefits of each (ACHASSI160)		
<ul> <li>Work as a team to create an innovative solution</li> </ul>				
Use criteria to make decisions and judgements	Use criteria to make decisions and judgements	Develop and use criteria to make informed decisions		
and consider advantages and disadvantages of	and consider advantages and disadvantages of	and judgements (ACHASSI161)		
preferring one decision over others	preferring one decision over others			
(ACHASSI103)	(ACHASSI131)			
<ul> <li>Develop a rubric to evaluate possible project so</li> </ul>				
Reflect on learning to propose personal and/or	Reflect on learning to propose personal and/or	Reflect on learning to propose personal and/or		
collective action in response to an issue or	collective action in response to an issue or	collective action in response to an issue or challenge,		
challenge, and predict probable effects	challenge, and predict probable effects	taking into account different perspectives, and		
(ACHASSI104)	(ACHASSI132)	describe the expected effects (ACHASSI162)		
Develop an innovative solution to the project issue.				
Share the project with experts, stakeholders and other interested parties.				
Present ideas, findings, viewpoints and	Present ideas, findings, viewpoints and	Present ideas, findings, viewpoints and conclusions		
conclusions in a range of texts and modes that	conclusions in a range of texts and modes that	in a range of texts and modes that incorporate source		
incorporate source materials, digital and non-	incorporate source materials, digital and non-	materials, citations, graphic representations and		
digital representations and discipline-specific	digital representations and discipline-specific	discipline specific terms, conventions and concepts		
terms and conventions (ACHASSI105)	terms and conventions (ACHASSI133)	(ACHASSI163)		
Share the project with experts, stakeholders and other interested parties.				

Create a comprehensive project presentation.

